

## INDEX BY TITLES AND SUBJECTS

### *Algebra*

Effective Method of Teaching Pupils How to Solve Verbal Problems. Haertter, L. D., XXIV, Mar. 1931, 166-175.

Equivalence of Equations in One Unknown. Bruce, Robert E., XXIV, April 1931, 238-244.

Logarithms or Exponents? Munro, T., XXIV, Oct. 1931, 364-368.

Problem of Teaching Exponents. Wm. James Lyons, XXIV, Dec. 1931, 483-491.

Some Simple Logical Notions Encountered in Elementary Mathematics. Garabedian, Carl A., I. Necessary, Sufficient, and Necessary and Sufficient Conditions. XXIV, Oct. 1931, 345-352; II. On Proving Identities and Solving Equations. Nov. 1931.

Testing Program in Elementary Algebra and its Evaluation. Welton, P. L., XXIV, Feb. 1931, 69-75.

Algebra and the Development of Reason. Langer, Susanne K., XXIV, May 1931, 285-297.

### *Analytic Geometry*

Conic Sections Formed by Some Elements of a Plane Triangle. Bakst, Aaron, XXIV, Jan. 1931, 28-31.

Another Phase of the Geometry Situation. Hart, Howard F., XXIV, Mar. 1931, 176-179.

### *Arithmetic*

Consumer's Uses of Arithmetic Again. Bowden, A. O., XXIV, Feb. 1931, 76-85.

The Efficiency of Decomposition Compared with That of Equal Additions as a Technique in Subtraction of Whole Numbers. Johnson, J. T., XXIV, Jan. 1931, 5-13.

Roman Numerals. Sanford, Vera, XXIV, Jan. 1931, 22-27.

Assuming the Congruence Theorems. Nyberg, Joseph A., XXIV, Oct. 1931, 395-399.

Combined Course in Plane and Solid Geometry? Stone, Charles A., XXIV, Mar. 1931, 160-165.

Conic Sections Formed by Some Elements of a Plane Triangle. Bakst, Aaron, XXIV, Jan. 1931, 28-31.

Constructing a Transit as a Project in Geometry. Engle, T. L., XXIV, Nov. 1931, 444-447.

Consumer's Uses of Arithmetic Again, Bowden, A. O., XXIV, Feb. 1931, 76-85.

Debates Versus Examinations in the History of Mathematics. Graham, Edna, XXIV, Mar. 1931, 181-183.

Effective Method of Teaching Pupils How to Solve Verbal Problems. Haertter, L. D., XXIV, Mar. 1931, 166-175.

Efficiency of Decomposition Compared with That of Equal Additions as a Technique in Subtraction of Whole Numbers. Johnson, J. T., XXIV, Jan. 1931, 5-13.

Equivalence of Equations in One Unknown. Bruce, Robert E., XXIV, April 1931, 238-244.

Experiment in Classification of Students in Mathematics. Taylor, S. Helen, XXIV, Nov. 1931, 414-423.

Fourth Dimension. Seybold, Anice., XXIV, Jan. 1931, 41-45.

Fusion of Plane and Solid Geometry. Orleans, Joseph B., XXIV, Mar. 1931, 151-159.

### *Geometry*

Another Phase of the Geometry Situation. Hart, Howard F., XXIV, Mar. 1931, 176-179.

Assuming the Congruence Theorems. Nyberg, Joseph A., XXIV, Oct. 1931, 395-399.

Combined Course in Plane and Solid Geometry? Stone, Charles A., XXIV, Mar. 1931, 160-165.

Fourth Dimension. Seybold, Anice, XXIV, Jan. 1931, 41-45.

Fusion of Plane and Solid Geometry. Orleans, Joseph B., XXIV, Mar. 1931, 151-159.

Laboratory Work in Geometry. McDill, R. M., XXIV, Jan. 1931, 14-21.

Notes on the First Year of Demonstrative Geometry in Secondary Schools. Beatley, Ralph, XXIV, April 1931, 213-222.

Principle of Continuity. Hennessey, Francis P., XXIV, Jan. 1931, 32-40.

Report of the Committee on Geometry. XXIV, May 1931, 298-302.

Report of the Second Geometry Committee. Austin, Charles M., Chairman, XXIV, Oct. 1931, 370-394.

Solid Geometry in the High School. Coble, A. B., XXIV, Nov. 1931, 424-428.

High School Finishing Mathematics Second Year. Wright, Horace C., XXIV, Mar. 1931, 133-138.

High School Mathematics Teachers in the U. S. Anderson, Earl W. and Eliassen, R. H., XXIV, Nov. 1931, 409-413.

#### *Historical Notes*

Clavius, XXIV, Jan. 1931, 40.

Pierre de Fermat, XXIV, Dec. 1931, 512-513.

Galileo, XXIV, Feb. 1931, 118-120.

Johann Kepler, XXIV, Mar. 1931, 184.

Marin Mersenne, XXIV, Oct. 1931, 369.

John Napier, XXIV, May 1931, 310.

William Oughtred, XXIV, Nov. 1931, 457-458.

Willebrord Snell van Roijen, XXIV, April 1931, 244.

#### *History of Mathematics*

Debates Versus Examinations in the History of Mathematics, Graham, Edna, XXIV, Mar. 1931, 181-183.

Roman Numerals. Sanford, Vera, XXIV, Jan. 1931, 22-27.

Human Elements in Mathematics. Browne, E. T., XXIV, Feb. 1931, 103-109.

If  $a+b+c=0$ . Aude, T. R., XXIV, Dec. 1931, 491.

Laboratory Work in Geometry. McDill, R. M., XXIV, Jan. 1931, 14-21.

Logarithms or Exponents? Munro, T., XXIV, Oct. 1931, 364-368.

Maintenance Drills in the Junior High School. Lee, Doris May and Lea, J. Murray, XXIV, Nov. 1931, 448-452.

Mathematical Powers. Rankin, W. W., XXIV, May 1931, 303-310.

Mathematics as a Liberator of the Spirit. Anning, Norman, XXIV, May 1931, 277-282.

Mathematics Club Meets. Pitcher, Wilimina Everett, XXIV, April 1931, 197-207.

Mathematics in the Home. Palmer, Katherine Ball, XXIV, Oct. 1931, 353-363.

Mathematics Teacher Seeks Guidance in Guidance. Parks, G. Hapgood, XXIV, Feb. 1931, 89-98.

Merlin and Viviane, Shaw, James B., XXIV, April 1931, 223-231.

Mystic Mathematics, the Message of the Spiral. Sister Alice Irene, XXIV, Mar. 1931, 139-150.

National Council of Teachers of Mathematics, Guest and Servant of the Detroit Public Schools. Miller, E. L., XXIV, May 1931, 265-268.

National Council of Teachers of Mathematics in 1930-31. Everett, John P., XXIV, May 1931, 283-284.

National Council of Teachers and Mathematics, Twelfth Annual Meeting, XXIV, Jan. 1931, 52-53.

Need for Being Definite with Respect to Achievement Standards. Schorling, Raleigh, XXIV, May 1931, 311-329.

*News Notes*

XXIV, Jan. 1931, 55-58.  
Feb. 1931, 121-122.  
April 1931, 255.  
May 1931, 276, 297.  
Oct. 1931, 352, 368, 394, 399.  
Dec. 1931, 513-515.  
Notes on the First Year of Demonstrative Geometry in Secondary Schools. Beatley, Ralph, XXIV, April 1931, 213-222.  
Number Contents of Front Page of Newspapers. Suelz, Ben, XXIV, Feb. 1931, 99-102.  
On the Computation of Square Roots. Ward, L. E., XXIV, Feb. 1931, 86-88.  
Our Public Schools Should Teach Thrift. Wallace, Thomas F., XXIV, April 1931, 245-247.

*Plays*

The Mathematics Club Meets. Pitcher, Wilimina Everett, XXIV, April 1931, 197-207.  
Principle of Continuity. Hennessey, Francis P., XXIV, Jan. 1931, 32-40.  
Problem of Teaching Exponents. Wm. James Lyons, XXIV, Dec. 1931, 483-491.  
Problems of Algebra Pupils. Clara D. Murphy, XXIV, Dec. 1931, 503-511.  
Report of the Committee on Geometry. Jackson, Dunham, XXIV, May 1931, 298-302.  
Report of the Election Held at the Annual Meeting of the National Council, Feb. 21, 1931. XXIV, April 1931, 247.  
Report of the Second Geometry Committee. Austin, Charles M., XXIV, Oct. 1931, 370-394.  
Roman Numerals. Sanford, Vera, XXIV, Jan. 1931, 22-27.  
Seventh Grade Mathematics Class Bank. Robertson, Georgia Day, XXIV, Nov. 1931, 453-456.  
Significant Digits in Computation with Approximate Numbers. Bond, E. A., XXIV, April 1931, 208-212.  
Solid Geometry in the High School. Coble, A. B., XXIV, Nov. 1931, 424-428.  
Some Methods in Professionalized Subject Matter Courses in Mathematics for Teachers Colleges. Kramer, Edna E., XXIV, Nov. 1931, 429-435.  
Some Relations between the High School and the College Curriculum in Mathematics. Simon, Webster G., XXIV, April 1931, 232-237.  
Some Simple Logical Notions Encountered in Elementary Mathematics; I. Necessary, Sufficient, and Necessary and Sufficient Conditions. II. On Proving Identities and Solving Equations. Garabedian, Carl A., XXIV, October 1931, 345-352; November 1931, 434-443.  
Some Values of the Study of Mathematics. Campbell, Alan D., XXIV, Jan. 1931, 46-51.  
Sources of Program Material and Some Types of Program Work which might be Undertaken by High School Mathematics Clubs. Hoag, Ruth, XXIV, Dec. 1931, 492-502.  
Stimulating Interest in Mathematics by Creating a Mathematical Atmosphere. Cook, Mary Ruth, XXIV, April 1931, 248-254.  
Study of Individual Differences as They Effect Mathematics Classes. Sykes, Mabel, XXIV, Mar. 1931, 180.  
Suggestions to Contributors. XXIV, Jan. 1931, 54.  
Testing Program in Elementary Algebra and its Evaluation. Welton, P. L., XXIV, Feb. 1931, 69-75.  
Training of Teachers of Mathematics with Special Reference to the Relation of Mathematics to Modern Thought. Cairns, W. D., XXIV, May 1931, 269-276.  
Twelfth Annual Meeting of the National Council of Teachers of Mathematics,

Detroit, February 20-21, 1931. XXIV, May 1931, 330-331; Registration, 331-333; Report of the Secretary-Treasurer, 334.  
 Values of Primal Mathematical Concepts: a Picture. Durell, Fletcher, XXIV, Feb. 1931, 110-117.  
 Why Study Mathematics? F. L. Wren, XXIV, Dec. 1931, 473-482.

---

### INDEX BY AUTHORS

Anderson, Earl W. and R. H. Eliassen.  
 High School Mathematics Teachers in the U. S. XXIV, Nov. 1931, 409-413.

Anning, Norman.  
 Mathematics as a Liberator of the Spirit. XXIV, May 1931, 277-282.

Aude, Hermann T. R.  
 If  $a+b+c=0$ . XXIV, Dec. 1931, 491.

Austin, Charles M.  
 Report of the Second Geometry Committee, XXIV, Oct. 1931, 370-394.

Bakst, Aaron.  
 Conic Sections Formed by Some Elements of a Plane Triangle. XXIV, Jan. 1931, 28-31.

Beatley, Ralph.  
 Notes on the First Year of Demonstrative Geometry in Secondary Schools. XXIV, April 1931, 213-222.

Bond, E. A.  
 Significant Digits in Computation with Approximate Numbers, XXIV, April 1931, 208-212.

Bowden, A. O.  
 Consumer's Uses of Arithmetic Again. XXIV, Feb. 1931, 76-85.

Browne, E. T.  
 Human Elements in Mathematics, XXIV, Feb. 1931, 103-109.

Bruce, Robert E.  
 Equivalence of Equations in One Unknown. XXIV, April 1931, 238-244.

Cairns, W. D.  
 Training of Teachers of Mathematics with Special Reference to the Relation of Mathematics to Modern Thought. XXIV, May 1931, 269-276.

Campbell, Alan D.  
 Some Values of the Study of Mathematics. XXIV, Jan. 1931, 46-51.

Coble, A. B.  
 Solid Geometry in the High School. XXIV, Nov. 1931, 424-428.

Cook, Mary Ruth.  
 Stimulating Interest in Mathematics by Creating a Mathematical Atmosphere. XXIV, April 1931, 248-254.

Durell, Fletcher.  
 Values of Primal Mathematical Concepts: a Picture. XXIV, Feb. 1931, 110-117.

Eliassen, R. H. See Anderson, Earl W.

Engle, T. L.  
 Constructing a Transit as a Project in Geometry. XXIV, Nov. 1931, 444-447.

Everett, John P.  
 National Council of Teachers of Mathematics in 1930-31. XXIV, May 1931, 283-284.

Garabedian, Carl A.  
 Some Simple Logical Notions Encountered in Elementary Mathematics, XXIV, Oct. 1931, 345-352; Nov. 1931, 436-443.

Graham, Edna.  
 Debates Versus Examinations in the History of Mathematics, XXIV, Mar. 1931, 181-183.

Haertter, L. D.  
 Effective Method of Teaching Pupils How to Solve Verbal Problems. XXIV, Mar. 1931, 166-175.

Hart, Howard F.  
Another Phase of the Geometry Situation. **XXIV**, Mar. 1931, 176-179.

Hennessey, Francis P.  
Principle of Continuity. **XXIV**, Jan. 1931, 32-40.

Hoag, Ruth.  
Sources of Program Material and Some Types of Program Work Which Might be Undertaken by High School Mathematics Clubs. **XXIV**, Dec. 1931, 492-502.

Jackson, Dunham, Chairman.  
Report of the Committee on Geometry. **XXIV**, May 1931, 298-302.

Johnson, J. T.  
Efficiency of Decomposition Compared with that of Equal Additions as a Technique in Subtraction of Whole Numbers. **XXIV**, Jan. 1931, 5-13.

Kramer, Edna E.  
Some Methods in Professionalized Subject Matter Courses in Mathematics for Teachers Colleges. **XXIV**, Nov. 1931, 429-435.

Langer, Susanne K.  
Algebra and the Development of Reason. **XXIV**, May 1931, 285-297.

Lee, Dorris May, and J. Murray Lee.  
Maintenance Drills in the Junior High School. **XXIV**, Nov. 1931, 448-452.

Lee, J. Murray. See Lee, Dorris May.

Lyons, Wm. James.  
The Problem of Teaching Exponents. **XXIV**, Dec. 1931, 483-491.

McDill, R. M.  
Laboratory Work in Geometry. **XXIV**, Jan. 1931, 14-21.

Miller, E. L.  
National Council of Teachers of Mathematics. Guest and Servant of the Detroit Public Schools. **XXIV**, May 1931, 265-268.

Munro, T.  
Logarithms or Exponents? **XXIV**, Oct. 1931, 364-368.

Murphy, Clara D.  
Problems of Algebra Pupils. **XXIV**, Dec. 1931, 503-511.

Nyberg, Joseph A.  
Assuming the Congruence Theorems. **XXIV**, Oct. 1931, 395-399.

Orleans, Joseph B.  
Fusion of Plane and Solid Geometry. **XXIV**, Mar. 1931, 151-159.

Palmer, Katherine Ball.  
Mathematics in the Home. **XXIV**, Oct. 1931, 353-363.

Parks, G. Hapgood.  
Mathematics Teacher Seeks Guidance in Guidance. **XXIV**, Feb. 1931, 89-98.

Pitcher, Wilimina Everett.  
The Mathematics Club Meets. **XXIV**, April 1931, 197-207.

Rankin, W. W.  
Mathematical Powers. **XXIV**, May 1931, 303-310.

Robertson, Georgia Day.  
Seventh Grade Mathematics Bank. **XXIV**, Nov. 1931, 453-456.

Sanford, Vera.  
Roman Numerals. **XXIV**, Jan. 1931, 22-27.

Schorling, Raleigh.  
Need for Being Definite with Respect to Achievement Standards. **XXIV**, May 1931, 311-329.

Seybold, Anice.  
Fourth Dimension. **XXIV**, Jan. 1931, 41-45.

Shaw, James B.  
Merlin and Viviane. **XXIV**, April 1931, 223-231.

Simon, Webster G.  
Some Relations between the High School and the College Curriculum in Mathematics. **XXIV**, April 1931, 232-237.

Sister Alice Irene.  
Mystic Mathematics, the Message of the Spiral. **XXIV**, Mar. 1931, 139-150.

Stone, Charles A.  
 Combined Courses in Plane and Solid Geometry? XXIV, Mar. 1931, 160-165.

Sueltz, Ben.  
 Number Contents of Front Page of Newspapers. XXIV, Feb. 1931, 99-102.

Sykes, Mabel.  
 Study of Individual Differences as They Effect Mathematics Classes, XXIV, Mar. 1931, 180.

Taylor, S. Helen.  
 Experiment in Classification of Students in Mathematics. XXIV, Nov. 1931, 414-423.

Wallace, Thomas F.  
 Our Public Schools Should Teach Thrift. XXIV, April 1931, 245-247.

Ward, L. E.  
 On the Computation of Square Roots. XXIV, Feb. 1931, 86-88.

Welton, P. L.  
 Testing Program in Elementary Algebra and its Evaluation, XXIV, Feb. 1931, 69-75.

Wren, F. L.  
 Why Study Mathematics? XXIV, Dec. 1931, 473-482.

Wright, Horace C.  
 High School Finishing Mathematics Second Year, XXIV, Mar. 1931, 133-138.

---

### BOOK REVIEWS

Bakst, Aaron, See Lietzmann, Walther.

Brueckner, Leo J. *Diagnostic and Remedial Teaching in Arithmetic*. XXIV, Oct. 1931, 401.

Chace, A. B. *The Rhind Mathematical Papyrus*. XXIV, Nov. 1931, 460. H. E. Slaught.

Chateauneuf, Amy Olive. *Changes in the Content of Elementary Algebra since the Beginning of the High School Movement as Revealed by the Textbooks of the Period*. Lao G. Simons. XXIV, Jan. 1931, 58.

Christofferson, H. C., see Smith, Rolland R.

Haertter, Leonard D. *Instructional Tests and Chapter Tests for a First Course in Algebra*. XXIV, Oct. 1931, 402.

Hagstrom, K. G. *Sagan om de 10 tekniken*. David Eugene Smith.

Lieber, Lillian R. *Non-Euclidean Geometry or Three Moons in Mathesis*. XXIV, Dec. 1931, 516. Adam J. Smith.

Lietzmann, Walther. *Mathematik und Bildende Kunst*. XXIV, Mar. 1931, 185. Aaron Bakst.

Mikesh, James S. See Miles, Egbert J.

Miles, Egbert J. and James S. Mikesh. *Calculus*. XXIV, Nov. 1931, 459. W. S. Schlauach.

Sanford, Vera. *Short History of Mathematics*. XXIV, Feb. 1931, 122. Lao G. Simons.

Schlauach, W. S. See Miles, Egbert J.

Simons, Lao G., see Chateauneuf, Amy Olive, and Sanford, Vera.

Simpson, Thomas Marshall. *Plane Trigonometry and Logarithms*. XXIV, Oct. 1931, 401.

Slaught, H. E. See Chace, A. B.

Smith, Adam J. See Lieber, Lillian R.

Smith, David Eugene. See Hagstrom, K.-G.

Smith, Leland W., see Smith, Rolland R.

Smith, Rolland R. *Beginner's Geometry*. H. C. Christofferson, XXIV, Oct. 1931, 400.

— and Leland W. Smith. *Solid Geometry*. H. C. Christofferson, XXIV, Oct. 1931, 400.

